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CLAIMS

What is claimed is:

- 1 1. A wireless modem comprising:
  - 2 a processor;
  - 3 a memory coupled to said processor, said memory
  - 4 comprising a software stack configured to hold
  - 5 one or more sequences of instructions for causing
  - 6 said processor to handle a wireless protocol;
  - 7 a RF transceiver coupled to said processor; and
  - 8 an interface coupled to said processor, said interface
  - 9 configured to receive signals from an external
  - 10 device; wherein
  - 11 said processor is configured to handle said signals
  - 12 from said external device over said interface,
  - 13 and wherein said processor is further configured
  - 14 to handle one or more short message service
  - 15 messages delivered over said RF transceiver, said
  - 16 short message service messages comprising modem
  - 17 management information.

1 2. The wireless modem of claim 1, wherein said modem  
2 management information comprises wireless modem  
3 configuration parameters.

1 3. The wireless modem of claim 1, wherein said modem  
2 management information includes a command for wireless  
3 modem to perform a function stored internally to said  
4 wireless modem.

1 4. The wireless modem of claim 1, wherein said processor  
2 handles said one or more short message service messages  
3 received over said RF transceiver by parsing data from one  
4 or more said short message service messages, testing said  
5 parsed data for a modem management command indicator, and  
6 processing said short message service message if said modem  
7 management command indicator is detected.

1 5. The wireless modem of claim 1, wherein said wireless  
2 protocol is a global system for mobile communications  
3 protocol.

1 6. The wireless modem of claim 1, wherein said wireless  
2 protocol is a general packet radio services protocol.

1    7.    A method for wireless modem management comprising the  
2    steps of:  
3        receiving a short message service message at a  
4        wireless modem;  
5        examining said short message service message for modem  
6        management information;  
7        processing said short message service message at said  
8        wireless modem if said short message service  
9        message comprises said modem management  
10       information; and  
11       passing said short message service message through  
12       said wireless modem if said short message service  
13       message does not comprise said modem management  
14       information.

1 8. The method of claim 7, said step of examining  
2 comprising the steps of:  
3 parsing said short message service message;  
4 testing said parsed short message service message for  
5 a modem management command indicator, said  
6 command indicator indicating whether said short  
7 message service message includes said modem  
8 management information; and  
9 signaling to a processor in said wireless modem that a  
10 command is waiting to be executed if said  
11 processing designator is found.

1 9. The method of claim 7, wherein said step of processing  
2 said short message service message at said wireless modem  
3 includes initializing said wireless modem based upon said  
4 modem management information contained in said short  
5 message service message.

1 10. The method of claim 7, wherein said step of processing  
2 said short message service message at said wireless modem  
3 includes the step of checking a quality of a wireless  
4 signal detected at said wireless modem.

1 11. The method of claim 7, wherein said step of processing  
2 said short message service message at said wireless modem  
3 includes the step of handling a request for a call log  
4 history.

1 12. The method of claim 7, wherein said step of processing  
2 said short message service message at said wireless modem  
3 includes the step of selecting a RF channel for wireless  
4 communications on said wireless modem.

1 13. The method of claim 7, wherein said step of processing  
2 said short message service message at said wireless modem  
3 includes the step of authenticating a party sending short  
4 message service messages to said wireless modem.

1 14. The method of claim 7, wherein said step of processing  
2 said short message service message at said wireless modem  
3 includes the step of initializing communication parameters  
4 for event detection and notification.

1 15. A computer-readable medium comprising one or more  
2 sequences of instructions configured to cause a processor  
3 to perform steps for modem management in a wireless modem,  
4 said one or more sequences of instructions comprising the  
5 steps of:  
6 receiving a short message service message at a  
7 wireless modem;  
8 examining said short message service message for modem  
9 management information;  
10 processing said short message service message at said  
11 wireless modem if said short message service  
12 message comprises said modem management  
13 information; and  
14 passing said short message service message through  
15 said wireless modem if said short message service  
16 message does not comprise said modem management  
17 information.

1 16. The computer-readable medium of claim 15, said step of  
2 examining comprising the steps of:

3 parsing said short message service message;

4 testing said parsed short message service message for

5 a modem management command indicator, said

6 command indicator indicating whether said short

7 message service message includes said modem

8 management information; and

9 signaling to a processor in said wireless modem that a

10 command is waiting to be executed if said

11 processing designator is found.

1 17. The computer-readable medium of claim 15, wherein said

2 step of processing said short message service message at

3 said wireless modem includes initializing said wireless

4 modem based upon said modem management information

5 contained in said short message service message.

1 18. The computer-readable medium of claim 15, wherein said

2 step of processing said short message service message at

3 said wireless modem includes the step of checking a quality

4 of a wireless signal detected at said wireless modem.



1 19. The computer-readable medium of claim 15, wherein said  
2 step of processing said short message service message at  
3 said wireless modem includes the step of handling a request  
4 for a call log history.

1 20. The computer-readable medium of claim 15, wherein said  
2 step of processing said short message service message at  
3 said wireless modem includes the step of selecting a RF  
4 channel for wireless communications on said wireless modem.

1 21. The computer-readable medium of claim 15, wherein said  
2 step of processing said short message service message at  
3 said wireless modem includes the step of authenticating a  
4 party sending short message service messages to said  
5 wireless modem.

1 22. The computer-readable medium of claim 15, wherein said  
2 step of processing said short message service message at  
3 said wireless modem includes the step of initializing  
4 communication parameters for event detection and  
5 notification.